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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,998		06/30/2003	Seaung Suk Lee	P68944US0 8193	
136	7590	03/29/2004		EXAMINER	
JACOBSON HOLMAN PLLC			BERRY, RENEE R		
400 SEVENTH STREET N.W. SUITE 600			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20004			2818		

DATE MAILED: 03/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/607,998	LEE, SEAUNG SUK
Office Action Summary	Examiner	Art Unit
	Renee R Berry	2818
The MAILING DATE of this communication a riod for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of tho dwill apply and will expire SIX (6) MO tute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133).
itus		
1) Responsive to communication(s) filed on		
	his action is non-final.	
3) Since this application is in condition for allow		
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.
sposition of Claims		
4) Claim(s) <u>1-4</u> is/are pending in the applicatio		
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-4</u> is/are rejected.		
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	d/or election requirement.	
Claim(3) are subject to restriction and	3/0/ 0/00:00 / 044:00	
plication Papers		
9) The specification is objected to by the Exam		
10) The drawing(s) filed on 13 July 2003 is/are:		
Applicant may not request that any objection to t		
Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the		
•	LAGITHINGT. NOTE THE AUDUL	Ca Chiec Action of John 1 10-102.
ority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. ☐ Certified copies of the priority docume		Application No.
2. Certified copies of the priority docume		
 Copies of the certified copies of the p application from the International Bur 		ar received fir this Mattorial Otage
* See the attached detailed Office action for a		ot received.

Attachment(s)

Period for Reply

Status

Priority under 35 U.S.C. § 119

Disposition of Claims

Application Papers

1)	\triangle	Notice of	References	Citea (F	10-692)

2) Motice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date

4)	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) L	Other:	_
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,664,579.

In regards to claim 1, Kim teaches a method for fabricating a MTJ cell of a MRAM by forming a pinned ferromagnetic layer on a connection layer; forming a tunnel barrier on the pinned ferromagnetic layer; and forming a free ferromagnetic layer on the tunnel barrier layer at column 4, lines 27-35.

In regards to claim 2, Kim teaches the semiconductor film consists of a pure Group IV element at column 7, lines 50-53.

In regards to claim 3, Kim teaches semiconductor consists of a Group IV element and includes a group III element or Group V element as an impurity at column 5, lines 59-63.

In regards to claim 4, Kim teaches the semiconductor film is a compound semiconductor film consisting of a Group III element and a Group V element at column 7, lines 50-53.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee R Berry whose telephone number is (571) 272-1774. The examiner can normally be reached on M-F 9-5:30.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RRB

February 17, 2004

David Nelms

Supervisory Patent Examiner Technology Center 2800